HAKKE INDUSTRIES

Value for Trust

ISO 9001: 2015 Certified Company

Since 1994

Customer's Name : Shri Channakeshwari Enterprises
Item Name : 3 Mtr Conical Pole
Date of Inspection : 28/10/2022
No. of Qty : 15nos.

SL NO	Description	Dimensions as per Spec.	Acceptable Limits As per spec.	Observed
1	**Shaft Dimensions**			
	Shaft Length	3000mm	±5mm	3001mm
	Shaft Thickness	3mm	±0.2mm	3mm
	Top Dia	70mm	±5mm	70mm
	Bottom Dia	105mm	±5mm	106mm
2	**Base plate dimension**			
	Base plate Thickness	10mm	±0.2mm	10mm
	Base plate Size	200mm	±2mm	200mm
	Hole to hole distance(PCD)	200mm	±2mm	200mm
	Slot Size	20X40mm	±2mm	21x42mm
	Top Reducer Length	80mm	±2mm	80mm
	Top Reducer Dia	48mm	±0.2mm	48mm
3	**Welding**			
	Method of welding	MIG	Visual	Accepted
4	**HDGI**			
	Coating	Avg 85 Microns	±10	83 Microns

HAKKE INDUSTRIES ★ Bengaluru ★
Quality Incharge

Scanned with OKEN Scanner

se share your feedback

SIGMA
TEST & RESEARCH CENTRE
99, Badli Industrial Area,
Phase-2, New Delhi 110042
Ph. : +91 11 49491400
E-mail : mail@sigmatest.org
web : www.sigmatest.org

TEST CERTIFICATE

(This certificate is not valid without a hologram)

Clause No.	Test / Requirement name	Test result/ observation	Verdict
14.2.5	**Test for second characteristic numeral 5 with the 6.3 mm nozzle(IPX5)**		Pass
	The test is made by spraying the enclosure from all practicable direction with a stream of water from standard test nozzle as shown in figure 6.	In Compliance	Pass
	The condition to be observed are as follows;		-
	Internal diameter of nozzle 6.3 mm.	In Compliance	Pass
	Delivery rate 12.5 l/min ±5%	In Compliance	Pass
	Water pressure; To be adjusted to achieve specified delivery rate	In Compliance	Pass
	Core of the substantial stream; Circle of approximately 40 mm diameter at 2.5 m distance from nozzle	In Compliance	Pass
	Test duration per square meter of enclosure surface are likely to be sprayed 1 min.	In Compliance	Pass
	Minimum test duration 3 min.	In Compliance	Pass
	Distance between nozzle to enclosure surface between 2.5 and 3 m	In Compliance	Pass
14.3	**Acceptance Conditions**		
	It is the responsibility of the relevant technical committee to specify the amount of water which may be allowed to enter the enclosure and details of a dielectric strength if any.	No ingress of water is observed after the test	Pass
	Test conducted as per customer requirements, at temperature 60°C with time duration 4 hrs & there shall be no deformation in the sample after test.	No damage or deformation after the test.	Pass

STRC/7.8/F/TC/ZJ/00

Ravinder Singh Cheema
Technical Manager

SIGMA TEST & RESEARCH CENTRE DELHI

) The Test results listed refer only to tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.(2) Total liability of our Lab is limited the invoiced amount. (3) Sample(s) are retained for 7 days (in case of perishable items) and 30 days for non perishable samples or unless otherwise specified. (4) is Test Report is not to be reproduced wholly or in part and cannot be used as an evidence in the court of Law and should not be used in any advertising media without r special permission in writing. (5) The Test Report refer to the sample submitted to us and not drawn by Sigma Test & Research Centre unless mentioned otherwise.

Report No.: 21007421/B Report Issue Date: 08/08/2022

Sample During IK 08 TEST

Note: Sigma Test & Research Centre authenticate photos on original report only.

STANDARD EN 62262 IK TEST				
Requirement - Test	**Impact Energy (Joule)**	**Mass in kg**	**Height of fall (mm)**	**Test Result**
Characteristic group numerals of the IK08 code	5	1.7	300	Sample found satisfactory, No ingress to live part.

Decision Rule: The decision rule as per SOP DR01 is applied wherever statement of conformity to a specification or standard provided in the test report.

*****End of Report*****

STRC/7.8/F/TC/ZZ/00

SIGMA TEST & RESEARCH CENTRE 99, Badli Industrial Area, Phase-2, DELHI

Ravinder Singh Cheema
Technical Manager

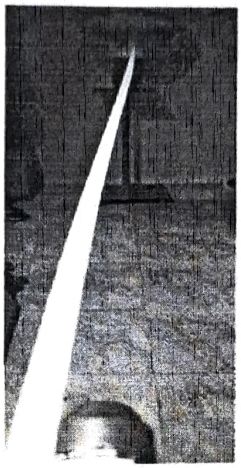
SIGMA
TEST & RESEARCH CENTRE

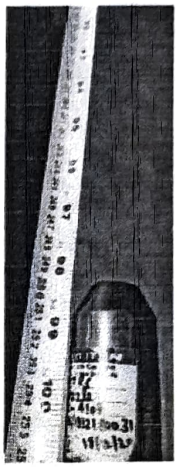
Report No.: 21007421/B

Report Issue Date: 08/08/2022

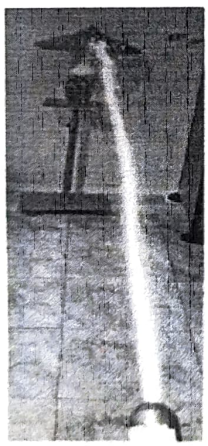
Sample During IP X5 TEST

6.3mm Nozzle

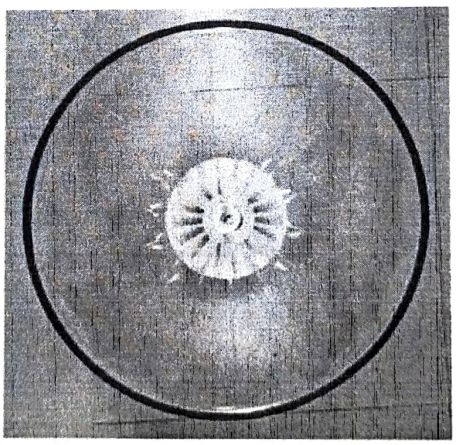




distance from 2. 5 to 3 m



Jets of Water from 2.5 to 3 m



After IP X5

Note: Sigma Test & Research Centre authenticate photos on original report only.

STRC/7.8/F/TC/ZZ/00

Ravinder Singh Cheema
Technical Manager

SIGMA TEST & RESEARCH CENTRE 99 Badli Industrial Area, Phase-2, DELHI

Head Office : 99, Badli Industrial Area, Phase-2, Delhi-110042(India)
Ph. : +91-11-49491400 E-mail : mail@sigmatest.org web : www.sigmatest.org

Please share your feedback

SIGMA TEST & RESEARCH CENTRE

99, Badli Industrial Area,
Phase-2, New Delhi 110042
Ph. : +91 11 49491400
E-mail : mail@sigmatest.org
web : www.sigmatest.org

TESTING OF FOOD | WATER | CHEMICALS | PETROLEUM PRODUCTS | BUILDING MATERIAL | ENVIRONMENT

TEST CERTIFICATE

(This certificate is not valid without a hologram)

Report No.: 21007421/B

Report Issue Date: 08/08/2022

Clause No.	Test / Requirement name	Test result/ observation	Verdict
13.4	**Dust Test For First Numeral 5 and 6 (IP 6X)**		
	The test is made using a dust chamber incorporating the basic principles, whereby the powder circulation pump maintains the talcum powder in suspension in a closed test chamber. The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is 50 mm and the nominal width of a gap between wires 75 mm. The amount of talcum powder to be used is 2 kg per cubic metre of the test chamber volume. It shall not have been used for more than 20 tests.	In Compliance	Pass
	Enclosures are of necessity in one of two categories:		-
	Category 1: Enclosures where the normal working cycle of the equipment causes reductions in air pressure within the enclosure below that of the surrounding air, e.g., due to thermal cycling effects.	Category 1 considered for IP6X	Pass
	Category 2: Enclosures where no pressure difference relative to the surrounding air is present		Not Applicable
	Category 1 Enclosure		-
	The pressure inside the Enclosure is maintained below the surrounding atmospheric pressure by a vacuum pump	See Below	--
	If, with a maximum depression of 2KPa(20mbar), the extraction rate is less than 40 volumes per hour, the test is continued until 80 volumes have been drawn through, or a period of 8Hr has elapsed	The test is conducted for 8Hr	Pass
13.6	**Special Conditions for first characteristics numeral 6**		
13.6.1	The enclosure shall be deemed category 1, whether reductions in pressure below the atmospheric pressure are present or not.	Category 1 Enclosure considered	Pass
13.6.2	**Acceptance condition for first numeral 6**		
	The protection is considered satisfactory, if no deposit is observable inside the enclosure at the end of the test	No deposit of dust observed inside the enclosure at the end of the test.	Pass

STRC/7.8/F/TC/7J00

Ravinder Singh Cheema
Technical Manager

SIGMA TEST & RESEARCH CENTRE 99, Badli Industrial Area, Phase-2, DELHI

(1) The Test results listed refer only to tested samples and applicable parameters. Endorsement of product is neither intended nor implied.(2) Total liability of our Lab is limited to the invoiced amount. (3) Sample(s) are retained for 7 days (in case of perishable items) and 30 days for non perishable samples or unless otherwise specified. (4) This Test Report is not to be reproduced wholly or in part and cannot be used as an evidence in the court of Law and should not be used in any advertising media without our special permission in writing. (5) The Test Report refer to the sample submitted to us and not drawn by Sigma Test & Research Centre unless mentioned otherwise.

SIGMA
TEST & RESEARCH CENTRE
99, Badli Industrial Area,
Phase-2, New Delhi 110042
Ph. : +91 11 49491400
E-mail : mail@sigmatest.org
web : www.sigmatest.org

TESTING OF FOOD | WATER | CHEMICALS | PETROLEUM PRODUCTS | BUILDING MATERIAL | ENVIRONMENT

TEST CERTIFICATE

(This certificate is not valid without a hologram)

Sample: Big Lotus Clear 36W
Sample Description: Big Lotus Clear 36W (36W big Lotus LED outdoor fitting)

Ref. No.:Nil,
Issued To:Emerald Lighting Solution
Sri Sai Leela Enterprises,
No. 52, 12th main, V.K. Gokak Road
Hanumanthanagar,
Bangalore-560050

Report No: 21007421/B
Report Issue Date: 08/08/2022
Job Code: STRC/21007421
Date of testing: 30/07/2022-03/08/2022
Sample Received On: 28/07/2022
Sample Qty.: 2 Pcs
Page 1 of 6
Sample Condition: Physical Condition Ok

Test Specimen Description	:	Big Lotus Clear 36W
Test Name	:	IP 65 & IK 08
Standard Test Method	:	IEC/IS : 60529, EN 62262
Test Start Date	:	30/07/2022
Test End Date	:	03/08/2022

Laboratory conditions.....

Ambient Temperature	:	27 ± 5 °C
Relative Humidity	:	45 to 75 %RH

General Remarks:

- The test results presented in this report relate only to the object tested.
- This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
- Any correction/ erasure invalidate this test report/ certificate.
- IP 65 & IK 08 tests are performed on "Big Lotus Clear 36W"

Remarks:
Witness By:
1. Channabasavardhya. T.C Executive Engineer TSCL
2. Mohammad Javeed Assistant Engineer TSCL
3. Kiran. V Support Engineer PMC-TSCL

STRC/7.8/F/TC/Z/00

Ravinder Singh Cheema
Technical Manager

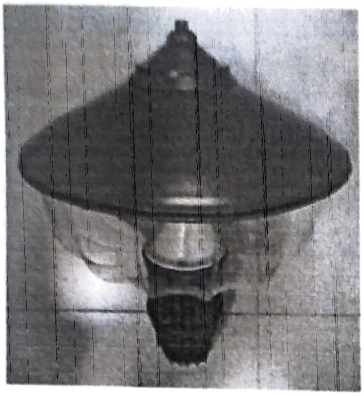
SIGMA TEST & RESEARCH CENTRE 99, Phase-2, DELHI

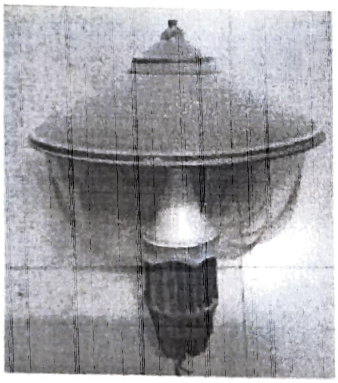
WWW.SIGMATEST.ORG

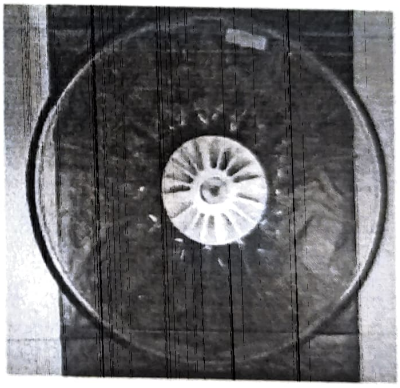
(1) The Test results listed refer only to tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.(2) Total liability of our Lab is limited to the invoiced amount. (3) Sample(s) are retained for 7 days (in case of perishable items) and 30 days for non perishable samples or unless otherwise specified. (4) This Test Report is not to be reproduced wholly or in part and cannot be used as an evidence in the court of Law and should not be used in any advertising media without our special permission in writing. (5) The Test Report refer to the sample submitted to us and not drawn by Sigma Test & Research Centre unless mentioned otherwise.

Photographic Proof(s):

Sample Before IP 6X TEST







While testing in Dust Proof Chamber **After testing in Dust Proof Chamber**

Note: Sigma Test & Research Centre authenticate photos on original report only.

STRC/7.8/FTC/ZJ00

SIGMA TEST & RESEARCH CENTRE DELHI

Ravinder Singh Cheema
Technical Manager